

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 November 2005 (10.11.2005)

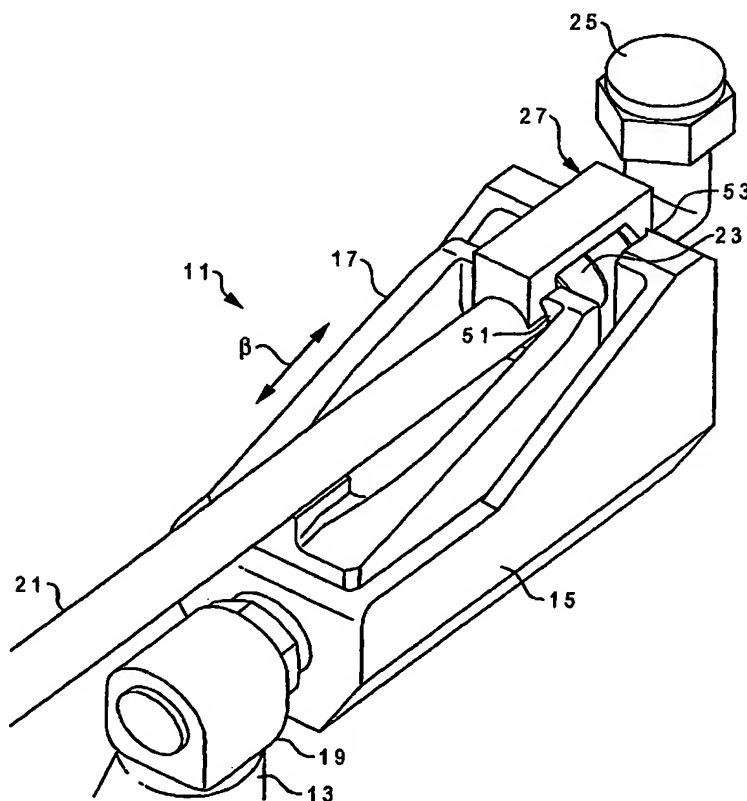
PCT

(10) International Publication Number
WO 2005/105367 A1

- (51) International Patent Classification⁷: B23Q 3/00, (74) Agent: WALTON, James, E.; Law Offices of James E. Walton, P.L.L.C., Suite 107-328, 1169 North Burleson Boulevard, Burleson, TX 76028 (US).
B21D 39/00, B23P 19/04, B25B 27/14
- (21) International Application Number: PCT/US2004/009828 (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 31 March 2004 (31.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (*for all designated States except US*): BELL HELICOPTER TEXTRON INC. [US/US]; P.O. Box 482, Fort Worth, TX 76101 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): SEMBRITZKY, David, D. [US/US]; 3349 Wilshire Avenue, Grapevine, TX 76051 (US). SAVILLE, Terry, L. [US/US]; 3491 Huntington Lane, St. Charles, MO 63303 (US).
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,

[Continued on next page]

(54) Title: AXIAL SWAGE ALIGNMENT TOOL



(57) Abstract: An axial swage alignment tool (11) having a bridge member (27) for axially and rotationally aligning a metal tube (21) and a fitting (31) is disclosed. The bridge member that is temporarily bonded to the exterior surfaces of the metal tube and the fitting. The bridge member eliminates the need to place any material between the metal tube and the fitting either prior to or after the swaging process.

WO 2005/105367 A1



GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

— *with international search report*

Declaration under Rule 4.17:

— *of inventorship (Rule 4.17(iv)) for US only*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.